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EXPLOSIVES

(Confidential Reports)

Compiled and Edited by

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For the Office of Naval Research Under Contract NAonr 13-47

WASHINGTON, D. C.

December, 1952

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SUMMARY TECHNICAL REPORT

9700 Vol. 1. The preparation and testing of explosives, edited by A. H. Blatt. Washington, D. C., 1946. 185p. Contents.--Chapter 1. Preparation of high explosives.--Chapter 2. The properties of high explosives.--Chapter 3. Applications of high explosives.--Chapter 4. Experimental studies of explosive phenomena.--Chapter 5. The theory of the detonation process.--Chapter 6. Propellants.--Chapter 7. Tracers and igniters. C

AMERICAN AIRCRAFT ASSOCIATION, Dayton, Ohio OEMsr-1216
Project OD-14.

9701 Grain type jet motor: design and development; final report by I. Edward Bando. July 18, 1945. C

9702 Design of the grain type jet motor; progress reports by C. W. Wilson. [Mar. 15]-June 15, 1944. C

9703 Development of motors for large grains of composite propellant, by C. W. Wilson. [Apr. 15, May 15 and June 15, 1944] C

CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena, Calif. OEMsr-881
Projects NO-33, NO-274, OD-01, OD-05, OD-12, OD-14, OD-15, OD-44, OD-158.

9704 Absorption spectra of explosives and other compounds of interest in the study of smokeless powder; [final report] by Rene Scott Mills and Philip E. Wilcox. Oct. 30, 1945. OSRD 5953.

9706 Changes in the percentage of diphenylamine in single and double base powders which had been subjected to vacuum stability tests at 110°, 100°, 90°, and 80°C; [final report] by Jerry Donohue. Nov. 28, 1945. OSRD-5957. C

9707 A chromatographic investigation of the impurities in certain samples of commercial EDX; [final report] by Earl W. Malmberg. Nov. 17, 1945. OSRD 5944 C

9709 Chromatographic studies of smokeless powder and related substances, II; [final report] by Robert B. Cercey and Walter A. Schroeder. Dec. 6, 1944. OSRD 4431. C

9710 Compositions of gases evolved by smokeless powders in vacuo at elevated temperatures; [final report] by Victor Schocken. Nov. 16, 1945. OSRD 5956.

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| 9711 | Critical evaluation of results of the application of the vacuum stability test to smokeless powder; [final report] by Jerry Donohue and William N. Lipscomb, jr. Dec. 6, 1945. OSRD 5963. C | 9718 | Investigations of captured Japanese propellants; [final report] by Garman Harbottle, Richard M. Noyes and David P. Shoemaker. Nov 13, 1945. OSRD 5971. C |
| 9712 | Decrease of stabilizer in powders containing RDX during storage at elevated temperatures; [final report] by Richard M. Lemmon. Nov. 13, 1945. OSRD 5945. C | 9720 | Investigations of the linear burning rates of propellant powders of various compositions; [final report] by Stanley C. Burket. Dec. 6, 1945. OSRD 5972. C |
| 9713 | The effect of changes in composition on the stability of trench mortar increments; [final report] by Kenneth N. Trueblood. Mar. 17, 1945. OSRD 4821. C | 9721 | A laboratory for the preparation of small batches of solventless double base powder; [final report] by A. O. Dekker. Nov. 14, 1945. OSRD 5947. C |
| 9714 | The effect of variations in composition on the stability of ballistite; [final report] by Kenneth N. Trueblood. Aug. 7, 1945. OSRD-5418. C | 9722 | A magazine of new design for conducting 65.5°C. surveillance tests on smokeless powders; [final report] by Austin L. Wahrhaftig. Nov. 23, 1945. OSRD 5962. C |
| 9716 | An investigation of the possible correlation of changes in color with the condition and stability of certain production lots of stick powder; [final report] by Jerry Donohue. Sept. 28, 1945. OSRD 5533. C | 9723 | Measurements of pH on smokeless powders; [final report] by John W. Otves and David P. Shoemaker. Nov. 28, 1945. OSRD 5968. C |
| 9717 | An investigation of the propellant taken from a captured 21-cm. German rocket; [final report] by David P. Shoemaker. Dec. 6, 1945. OSRD 5973. C | 9725 | A new apparatus for studying the stability of smokeless powders. A highly-modified form of the Taliani test; [final report] by Victor Schocken. Nov. 16, 1945. OSRD 5961. C |

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| 9732 | The relationship between the quantities of "total", "available", and "actual" diphenylamine in smokeless powders; [final report] by Allan L. Grossberg and Richard M. Noyes. Nov. 13, 1945. OSRD 5948. C | 9738 | Chromatographic studies of RDX and related substances, by Linus Pauling, R. B. Corey, A. L. LeRosen and Earl Malmberg. Apr.-Sept. 1944. C |
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| 9742 | Development of a vacuum stability test for double base powders; progress reports 1-2 by William N. Lipscomb, jr. May 30 and Oct. 18, 1945. OSRD nos. 5149, 5954. C | 9751 | Stabilization of smokeless powder by ethyl centralite. I. Transformation products of ethyl centralite in double base powder, by Kenneth N. Trueblood. Oct. 30, 1945. OSRD 5967. R |
| 9746 | Investigations of captured German propellants, by William N. Lipscomb, jr. and Richard M. Noyes. Oct. 2, 1945. OSRD 5970. C | 9752 | Studies of the effect of various salts on the vacuum stability behavior of solventless double base powders, by Philip Hayward. Nov. 13, 1945. OSRD 5960. C |
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| 9748 | Investigations of double base powders; formal monthly reports by Linus Pauling, Robert B. Corey, Gladys E. Acevedo, Joan M. Bateman, Olga M. Hoben and William N. Lipscomb, jr. Jan. 1943-Aug. 1945. Abstracts, by Linus Pauling. [Sept. 15, 1944-Aug. 15, 1945] Informal monthly reports, by Linus Pauling and Robert B. Corey. [Mar. 15, 1943-Jan. 15, 1945] C | 9754 | Vacuum stability tests on experimental powders containing manganese dioxide, by David P. Shoemaker and Jerry Donohue. Apr. 23, 1945. OSRD 4970. C |
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Project OD-04.</p> <p>9758 Beeswax substitutes for phlegmatization of cyclonite; progress report by D. P. MacDougall. Jan. 10, 1942. B-150. OSRD 313. C</p> <p>9759 Beeswax substitutes for phlegmatization of cyclonite; progress report no. 2 by D. P. MacDougall. Feb. 23, 1942. B-187. OSRD 397. R</p> <p>CARNEGIE INSTITUTE OF TECHNOLOGY,
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| 9771 | The application of flash photography to the study of explosion phenomena; progress report by E. M. Boggs, R. J. Brumbaugh and G. H. Messerly. Jan. 28, 1946. OSRD 5616. C | 9779 | Chemical stability research, by Russell McGill. [Dec. 15, 1942] C |
| 9772 | Ballistic properties of Composite Propellants 404 and 492; progress report by R. W. Broge. May 9, 1945. OSRD 5043. C | 9780 | Chemical stability testing and analysis, by Russell McGill. [Sept. 15, 1942] C |
| 9773 | "Beano" spherical grenade, by D. P. MacDougall, L. H. Farinholt, E. H. Eyster, A. A. Layton and L. Goodman. [Nov. 15, 1943-Aug. 15, 1944] C | 9782 | Comments on the talks by Dr. C. O. Davis and Dr. M. A. Cook at the Technical Meeting of the Joint Committee on Shaped Charges, March 29, 1943, by J. G. Kirkwood, G. B. Kistiakowsky, D. P. MacDougall, G. H. Messerly and M. A. Paul. C |
| 9774 | Beeswax substitutes for phlegmatization of cyclonite; progress report no. 3 by D. P. MacDougall. Apr. 4, 1942. B-218. OSRD 486. C | 9783 | A comparison of cyclotol, pentolite and ednatol. Memorandum, by D. P. MacDougall. Mar. 8, 1943. Progress report, by E. H. Eyster and M. A. Paul. Apr. 24, 1943. OSRD 1364. C |
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- 9833 The formation of methane during the cooling of powder gases in a closed bomb, by J. F. Kincaid. [Feb. 15, 1943] C
- 9834 Fragment velocity and fragmentation of 3"/50 (Mk. 27 Mod. 3) A.A. shell loaded with TNT and with Composition A3 and cavitized for Mk. 45, Mk. 54 and Mk. 58 fuzes, by R. W. Drake. June 26, 27 and Sept. 4, 1945. OSRD nos. 5266, 5267, 5531. Title varies. C
- 9835 Fragment velocity and fragmentation of 3"/50 Mk. 29 Mod. 3 AP shell, loaded with Composition A3 and Explosive D, by R. W. Drake. June 15, 1945. OSRD 5213. C
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- 9837 Fragment velocity and panel penetration - M71 90 mm. shell, TNT loaded; fuse fragments, base fragments, nose-wall fragments; progress report by R. W. Drake. Oct. 3, 1945. OSRD 5571. Supplement to OSRD 1964. C
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- 9840 Fragment velocity retardation, target penetration and mass distribution, by D. P. MacDougall, R. W. Drake and G. H. Messerly. [June 15, 1944-Mar. 15, 1945] C
- 9842 I. Further experimental work on nozzles for experimental testing of solid propellants. II. Motors for routine testing of rocket propellants; progress report by L. Axelrod. Jan. 17, 1946. OSRD 5583. C

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| 9846 | The gas evolution from Torpex; progress report by F. H. Westheimer and John W. Dawson. Sept. 1, 1944. OSRD 4085. C | 9854 | Inhibition of nitroglycerin diffusion in coatings for restricting burning of rocket propellants; progress report by Rufus W. Lumry. Nov. 5, 1943. OSRD 1995. C |
| 9847 | The grinding, classification, and particle size control of crystalline ingredients for solvent-extruded composite propellants; progress report by R. C. C. St. George, jr. Oct. 24, 1945. OSRD 5578. C | 9855 | Initiation of detonation in TNT, by D. P. MacDougall. [194-] C |
| 9848 | Heats of combustion, heats of explosion, and burning rates of ammonium picrate-potassium nitrate composite propellants; progress report by R. W. Broge. Nov. 15, 1945. OSRD 5585. C | 9857 | Initiation studies on solid explosives; progress report by Elizabeth M. Boggs, G. H. Messerly and H. A. Strecker. Dec. 14, 1945. OSRD 5617. C |
| 9849 | High desensitized cast explosives; progress report by Eugene H. Eyster. Jan. 22, 1946. OSRD 5628. C | 9858 | Introduction to explosives, by George B. Kistiakowsky. Aug. 2, 1945 OSRD 5401. C |
| | | 9859 | Investigation on cast double base propellants, by F. H. Westheimer. [Feb. 15-Aug. 15, 1945] Aging effect, by E. Specht and E. Hellerstein. [Apr. 15 1945] Studies on various types of casting powder, by E. Specht and E. Hellerstein. [Mar. 15, 1945] C |

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9860	Investigations on castable perchlorate propellants; preliminary report. Jan. 10, 1945. C	9869	Methods of physical testing; progress report no. 1 by Duncan P. MacDougall. Aug. 11, 1942. B-307. OSRD 804. C
9861	Kinetics of decomposition of various explosives; progress report by Hyman Henkin. July 4, 1944. OSRD 3856. C	9871	Microwave tube destruction; progress reports by Duncan P. MacDougall and M. A. Paul. Dec. 9, 1942 and Mar. 23, 1943. B-460. OSRD nos. 1122, 1287. C
9862	Mark 29 device, by D. P. MacDougall. [Dec. 15, 1942 and Feb. 15, 1943] C	9872	Momentum and kinetic energy of the shaped charge jet; progress report by M. A. Paul and J. F. Lemons. Oct. 23, 1945. OSRD 5570. C
9864	Measurement of underwater explosion pressures II; progress report by E. B. Wilson, jr. July 21, 1942. B-301. OSRD 753. C	9873	Optical studies of coned charges, by D. P. MacDougall. [Sept. 15, 1942] C
9865	The mechanism of action of cavity charges; progress report by George B. Kistiakowsky, Duncan P. MacDougall and G. H. Messerly. Apr. 12, 1943. OSRD 1338. C	9874	Optical studies of detonation rates, by D. P. MacDougall and G. H. Messerly. [Oct. 15, 1942-Aug. 15, 1943] C
9866	The mechanism of the formation of RDX; progress report by F. H. Westheimer and Edward Segel. May 15, 1944. C	9875	Optical studies of detonations, by D. P. MacDougall and G. H. Messerly. [Oct. 15, 1943-June 15, 1945] The detonation velocity of TNT, by M. Hurwitz and H. A. Strecker. [June 15, 1945] The nature of the radiation emitted by detonating explosives, by S. J. Jacobs, T. P. Cotter and R. J. Brumbaugh. [May 15, 1945] Rate of detonation studies with the rotating drum camera, by A. Evernden, W. K. Hall, M. D. Hurwitz and G. Downey. [May 15, June 15 and July 15, 1944] C
9867	Method of loading tracers, by L. P. Hammett and F. A. Long. [June 15-Sept. 15, 1943] C		
9868	A method of measuring impact strengths, by Robert H. Kalenberger. May 22, 1945. C		

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| 9876 | Optical studies of strong shock waves; progress report by Elizabeth M. Boggs and M. D. Hurwitz. Jan. 15, 1946. OSRD 5613. C | 9885 | Physical testing of explosives, by D. P. MacDougall. [Oct. 15, 1942] C |
| 9878 | Panel fragmentation trials of various 81 mm. mortar shells; progress report by R. W. Drake. Dec. 3, 1945. OSRD 5620. R | 9886 | Physical testing of explosives; progress reports by Eugene H. Eyster, William H. Rogers, jr., R. F. Davis and L. C. Smith. Part I. The sensitivity of explosives to bullet impact. Nov. 20, 1945. OSRD 5745. Part II. Sensitivity studies with the drop-weight impact machine. Dec. 27, 1945. OSRD 5744. Part III. Miscellaneous sensitivity tests; performance tests. Dec. 27, 1945. OSRD 5746. C |
| 9879 | Penetration of steel targets by linear charges; progress report by M. A. Paul. May 4, 1943. OSRD 1383. C | 9887 | Pit fragmentation studies, by J. F. Lemons and W. K. Hall. Composition A compared with service loadings in 3"/50 A.P. and A.A. projectiles. [May 15 and June 15, 1945] Evaluation of TNT-D2 and Picratol in comparison with TNT. [July 15, 1945] Explosive D and Composition A in the Navy Mk. 29-2 3" A.P. projectile. [Apr. 15, 1945] Mk. 31-1 3" A.A. projectile with Mk. 58 fuze. [Aug. 15, 1945] C |
| 9880 | Penetration of steel targets in air by small-scale cavity charges; progress report by M. A. Paul. Sept. 29, 1943. OSRD 1861. C | 9888 | Point-initiating fuzes for shaped charge weapons; progress report by J. F. Lemons and M. A. Paul. Jan. 3, 1946. OSRD 5601. C |
| 9881 | PEP-2 (PETN plastic explosive); progress report by Eugene H. Eyster and M. A. Paul. Feb. 11, 1944. OSRD-3240. C | 9889 | The preparation and properties of experimental powders, by J. F. Kincaid, B. P. Dailey, R. H. Kallenberger and F. H. Westheimer. [June 15, 1943-Aug. 15, 1945] C |
| 9882 | Phlegmatization of RDX, by D. P. MacDougall. [Sept. 15, 1942] C | | |
| 9883 | The physical properties of smokeless powder, by J. F. Kincaid. [Feb. 15, 1943] C | | |
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| 9890 | Preparation and properties of explosives, by James Cason and Russell McGill. [Oct. 15, 1942-Feb. 15, 1944] Preparation of cyclo tetramethylenetetranitramine (HMX); monthly summary report by John W. Dawson, Russell McGill and Amos Turk. Aug. 15, 1943. C | 9898 | Preparation of explosives, by Russell McGill. [Sept. 15, 1942] C |
| 9891 | Preparation and properties of Fivonite; progress report by Amos Turk. Sept. 3, 1943. OSRD 1767. C | 9899 | Preparation of HMX, by Russell McGill. [Dec. 15, 1942 and Jan. 15, 1943] C |
| 9892 | The preparation and properties of plastic high explosives; progress report by Eugene H. Eyster. Jan. 15, 1946 OSRD 5631. C | 9900 | Preparation of plastic explosive, by D. P. MacDougall. [194-] C |
| 9894 | The preparation and properties of solvent extruded composite propellants, by L. P. Hammett, J. F. Kincaid, B. P. Dailey, E. E. Mendenhall and G. G. Parkinson. [Sept. 15, 1943-Dec. 15, 1944] C | 9901 | The properties and applications of EJ powders; progress report by R. A. Ruehrwein, Rufus W. Lumry and J. F. Kincaid. Sept. 5, 1944. OSRD 4053. C |
| 9895 | The preparation and properties of solvent extruded composite propellants; progress report by G. G. Parkinson, B. P. Dailey and J. F. Kincaid. Jan. 17, 1946. OSRD 5576. C | 9902 | Purge pellet work at the Explosives Laboratory; progress report by F. A. Long. Jan. 27, 1944. OSRD 3184. R |
| 9896 | Preparation and testing of dry extruded rocket propellants, by J. E. Ablard. [May 15 and July 15, 1944] C | 9903 | The radiography of explosive materials; progress report by O. E. A. Bolduan. Nov. 5, 1945. OSRD 5575. C |
| 9897 | The preparation of experimental powders, by J. F. Kincaid. [Mar. 15 and May 15, 1943] C | 9904 | The rate of burning of a self-combustible material, by Walter Kauzrann. [194-] C |
| | | 9905 | The rate of detonation of various explosive compounds; progress reports by G. H. Messerly and M. D. Hurwitz. Feb. 22, 1943 and Jan. 15, 1946. OSRD nos. 1219, 5611. Title varies. C |
| | | 9907 | Rates of burning of high explosives, by D. P. MacDougall. [Aug. 15, 1943] C |

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9911	Research on special gun propellants, by J. F. Kincaid. [Sept. 15, 1942] C	9920	The separation of nitroglycerine from double base powders; progress reports by F. H. Westheimer. Preliminary literature survey, Mar. 9, 1945. OSRD 4791. Revised literature survey, Nov. 1, 1945. OSRD 5591. C
9912	Rifle bullet tests on composite propellant 218B and on ballistite; progress report by Henry Posner, jr. Aug. 12, 1943. OSRD 1706. C	9921	Shaped charge bombs; progress report by J. F. Lemons, E. J. Huber and M. A. Paul. Dec. 20, 1945. OSRD 5600. C
9913	A rotating drum camera for the optical study of detonations; progress report by G. H. Messerly. July 8, 1942. B-285. OSRD 682. C	9922	Shaped charge boosters; progress report by Leon Goodman. Dec. 26, 1945. OSRD 5629. C
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9916	Sensitivity and power tests, by D. P. MacDougall. [Sept. 15, 1942] C		

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| <p>9924 Shock wave studies with the rotating drum camera, by D. P. MacDougall, E. M. Boggs, G. H. Messerly, W. K. Hall and M. D. Hurwitz. [May 15, June 15 and July 15, 1944] Shock wave velocity and pressure from spherical charges of Torpex II. [Mar. 15, 1945] Shock wave velocity and pressure off a spherical charge. [Aug. 15, 1944] C</p> <p>9926 Specific impulse and burning rates of composite propellant 218-B and 218; progress report by Charles G. Sage. July 20, 1943. OSRD 1627. C</p> <p>9927 Specifications of the physical properties of desensitizing waxes for use in explosives; progress report by Eugene H. Eyster. Jan. 2, 1946. OSRD 5633. C</p> <p>9929 Stability of PETN and Pentolite, by James Cason and Russell McGill. [Oct. 15, 1942-Nov. 15, 1943] C</p> <p>9931 Stability research, by Russell McGill. [Jan. 15, 1943] C</p> <p>9932 The state of explosion product gases deduced from flash photographs of expanding shell cases, by D. P. MacDougall, E. M. Boggs and G. H. Messerly. [Dec. 15, 1943 and Jan. 15, 1944] C</p> | <p>9933 Steel target penetration in air by small-scale cavity charges; progress report no. 2 by E. J. Huber, J. F. Lemons and M. A. Paul. Jan. 15, 1946. OSRD 5604. C</p> <p>9934 Studies of a shaped charge assisted S.A.P. bomb; progress report by L. Paul Saxer. Jan. 18, 1946. OSRD-5605. C</p> <p>9935 Studies of shaped charges, by D. P. MacDougall, M. A. Paul, E. H. Eyster and G. H. Messerly. [Oct. 15, 1942-Aug. 15, 1945] C</p> <p>9936 Studies of shaped charges with the rotating drum camera; progress report by M. D. Hurwitz and H. A. Streck-er. Jan. 15, 1946. OSRD-5615. C</p> <p>9937 Studies of shell fragment mass distribution; progress reports by M. A. Paul and W. K. Hall. Part I. Navy 3"/50 A.A. projectiles, Mk. 27-3 and Mk. 31-1. Jan. 5, 1946. OSRD 5607. Part II. The Mk. 29-2 3"/50 A.P. projectile with Explosive D and with Composition A-3. Jan. 28, 1946. OSRD 5606. C</p> <p>9938 Studies of shell fragment mass distribution. Part III. Effect of booster size in the Mk. 27-3 3"/50 A.A. projectile loaded with cast TNT; progress report by M. A. Paul and W. K. Hall. Jan. 22, 1946. OSRD 5608. R</p> <p>9939 Studies of shell fragmentation, by D. P. MacDougall, R. W. Drake and G. H. Messerly. [Nov. 15, 1942-Aug. 15, 1945] C</p> |
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| <p>9940 Studies of the desensitization of Torpex-2 and of the sensitivity of HBX; progress report by Eugene H. Eyster. Jan. 2, 1946. OSRD 5743. C</p> <p>9941 Studies of the preparation, stabilization and testing of explosives, by F. H. Westheimer. [Mar. 15, 1944-Aug. 15, 1945] C</p> <p>9942 Studies of the sensitivity of explosives to bullet impact; progress report by E. H. Eyster and W. H. Rogers. Dec. 15, 1943. OSRD 3149. C</p> <p>9943 Studies of the stability of propellants, by F. H. Westheimer. [June 15, July 15 and Aug. 15, 1945] C</p> <p>9946 Study of ethyltrimethylolmethane trinitrate (EMMET), by James Cason. [Oct. 15, 1942] C</p> <p>9947 Study of RDX compositions, by D. P. MacDougall. [Oct. 15 and Nov. 15, 1942] C</p> <p>9948 Study of tetramethylolcyclopentanone tetranitrate (Fivonite), by James Cason. [Oct. 15, 1942] C</p> <p>9949 Substitutes for Albarite; progress report by F. H. Westheimer and R. H. Kallenberger. Dec. 5, 1945. OSRD 5592. C</p> | <p>9950 Surveillance of high explosives; progress report by Harold Salwin and F. H. Westheimer. Nov. 8, 1945. OSRD 5596. C</p> <p>9951 Surveillance of propellants; progress report by F. H. Westheimer and Harold Salwin. Oct. 30, 1945. OSRD-5594. C</p> <p>9952 Surveillance testing of high explosives; progress report by Hyman Henkin. Oct. 23, 1943. OSRD 1947. C</p> <p>9953 Surveillance testing of propellant explosives; progress report by Hyman Henkin. Sept. 5, 1944. OSRD 4103. C</p> <p>9954 Survey of investigations on new propellants for rockets and other jet propulsion devices, by Louis P. Hammett. Aug. 18, 1945. OSRD 5463. C</p> <p>9955 Target penetration by rotating cavity charges; progress report by M. A. Paul. Nov. 5, 1945. OSRD 5598. C</p> <p>9956 Target penetration by the jet from a rotating cone charge; progress reports by M. A. Paul. Aug. 5, 1943 and July 10, 1944. OSRD nos. 1680, 3874. C</p> |
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| 9957 | Techniques of preparation of cast double base powder, restrictive container fabrication, and firing of cast double base charges, progress report by H. M. Shuey and R. H. Martin. Dec. 26, 1945. OSRD 5580. C | 9964 | Thermal stability of NH_4NO_3 -nitrocellulose mixtures, by J. F. Kincaid. [Nov. 15, Dec. 15, 1942 and Feb. 15, 1943] C |
| 9958 | Tests of methods of mounting grains of composite propellant 218B in a rocket motor; progress report by Henry Posner, jr. Aug. 12, 1943. OSRD 1708. C | 9965 | Thermochemical computations on propellants, by J. F. Kincaid. [Oct. 15 and Nov. 15, 1942] C |
| 9959 | Tetramethylolcyclopentanone (Fivonite), by Russell McGill. [Dec. 15, 1942] C | 9966 | Thermochemical examination of a number of commercial and experimental propellants, by J. F. Kincaid. [Apr. 15, 1943] C |
| 9960 | Theoretical and experimental studies on the shock wave close to a long detonating cylinder of explosive, by D. P. MacDougall, E. M. Boggs and G. H. Messerly. [Apr. 15, 1944] C | 9970 | Tracer research at the ERL; progress report by Walter Kauzmann. Feb. 14, 1944. OSRD 3283. C |
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| 9962 | The theory of adiabatic ignition tests as applied to propellant powders, by F. H. Westheimer. [May 15, 1944] C | 9975 | The viscosity of explosive slurries, progress reports by E. H. Fyster, A. A. Layton and M. A. Paul. Part I. Experimental methods and results. May 22, 1944. OSRD 3663. Part II. Experimental methods; determination of stress-rate curves. Nov. 9, 1945. OSRD 5625. Part III. The improvement of explosive slurries by surface-active agents. Nov. 9, 1945. OSRD 5626. C |
| 9963 | The thermal stability of dicyandiamide and melamine compositions, by J. F. Kincaid. [Feb. 15, 1943] C | | |

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9976 Waxes for HBX; progress report by F. H. Westheimer. Oct. 3, 1945. OSRD 5573. C

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9977 Controlled fragmentation and shaped charges; interim reports compiled by [George B. Kistiakowsky] Sept. 15, 1942-Aug. 15, 1943. Report nos. CF-(1-12). C

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9981 The kinetics of nitration; progress reports by F. H. Westheimer, Edward Segel and Richard Schramm. Mar. 15-Sept. 15, 1943. C

9983 The oxynitration of benzene; progress reports by F. H. Westheimer, Edward Segel and Richard Schramm. Oct. 15, 1943-Feb. 12, 1944. C

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9988 I. The vacuum stability and Bergmann-Junk tests as applied to PETN and Pentolite. II. The vacuum stability test as applied to nitramines; final report by Robert C. Elderfield. Aug. 31, 1944. C

9989 [Composition of the "white substance" (WS)] by R. C. Elderfield. [May 3, 1944] C

9990 Controlled decomposition of nitrocellulose, by R. C. Elderfield. [Sept. 15, 1943-June 15, 1944] C

9991 Studies of thermal stability tests, by R. C. Elderfield. [Feb. 15, 1943-May 15, 1944] C

9992 [Work done at Columbia University under contract no. B-126] by R. C. Elderfield, L. S. Birnbaum, A. Myerson, L. F. Halley, D. F. Bongiorno and D. O. Hoffman. Monthly progress reports, Oct. 15, 1941-Nov. 15, 1943. Quarterly report, Apr. 15, 1942. C

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9993 Preparation of methylol derivatives from various aldehydes and ketones; final report by Arthur C. Cope and Robert C. Elderfield. [Dec. 1942] C

9995 [Work done at Columbia University under contract no. E-194] progress reports by R. C. Elderfield, L. F. Halley and Arthur C. Cope. Dec. 15, 1941-Nov. 1, 1942 C

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9997 Work on kinetics of nitra-
tion, by Louis P. Hammett.
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10000 Preparation of RDX; [final
report] by John R. Johnson.
Oct. 27, 1941. B-97. OSRD-
159. C

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5, OD-6, OD-12, OD-109.

10001 The chemistry of DINA and
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quist. May 15, 1945. C

10003 [Investigations carried out
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10004 Attempted nitrations of oc-
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10006 Crystal forms and sensitiv-
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10007 Crystallographic examination
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10008 Crystallographic studies of
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16, 1943. OSRD 1803. C

10010 Crystallographic studies of
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10013 The crystallography of del-
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10014 The crystallography of eth-
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| 10019 The microscopical examination of explosives, by A. T. Blomquist. [June 15, 1943-May 15, 1944] C | 10029 Recovery of acetic acid by use of concentrated sulfuric acid; preliminary report by John R. Johnson. Dec. 15, 1941. C |
| 10020 The microscopical examination of high explosive mixtures; progress report by Alfred T. Blomquist. Jan. 15, 1944. C | 10030 Recovery of acetic acid from the Bachmann V-61 process; progress report by John R. Johnson. Dec. 15, 1941. C |
| 10021 The microscopical examination of primer components, by A. T. Blomquist. [Dec. 15, 1943] C | 10031 Report of Dr. W. C. McCrone, jr. on his visit to the Shawinigan plant, by Alfred T. Blomquist. Dec. 17, 1942. C |
| 10023 The microscopical identification of waxes in explosives; progress reports by A. T. Blomquist. Dec. 25, 1943 and [Jan. 15, 1944] C | 10032 The sensitivity of RDX, HMX, and RDX-HMX mixtures; progress reports by John R. Johnson. July 15 and Aug. 12, 1942. B-317. OSRD 797. C |
| 10024 Polymorphic forms of HMX, by John R. Johnson. May 25, 1942. C | 10033 Sensitivity of RDX-HMX mixtures produced by the TEC-Bachmann process; progress report by John R. Johnson. Aug. 21, 1942. C |
| 10025 The polymorphism of HMX, by Alfred T. Blomquist. Feb. 27, 1943. OSRD 1227. C | 10034 Studies of RDX, HMX and RDX-HMX mixtures; progress report by John R. Johnson. June 15, 1942. C |
| 10026 Polymorphism of RDX; progress report by Alfred T. Blomquist. Sept. 15, 1943. C | 10035 Studies of the Ross process for RDX; progress report by John R. Johnson. Nov. 15, 1941. C |
| 10027 The polymorphism of RDX and HMX; progress report by Alfred T. Blomquist. Oct. 15, 1943. C | |

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- 10210 [Preliminary studies on the
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- 10211 I. The preparation of sta-
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10212 The solubility method, by
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10214 Studies on nitramines, by
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10220 [Study of shock waves] by
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10226 Propellants for special jet
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10228 Report of the studies on the
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- 10231 Tracer and igniter compositions; final report. Jan. 15, 1946. OSRD 6581. C
- 10232 [Igniters and tracers] by S. Ricklin and H. Hirschland. Apr. 15 and May 18, 1944. C
- 10233 Review of igniter and tracer compositions, by H. Hirschland and Saul Ricklin. R-79, Mar. 18, 1944. OSRD-3498, Apr. 21, 1944. C
- 10234 Tracer compositions, by L. T. Work, H. Hirschland, S. Ricklin and W. Dunham. [Apr. 15, 1944-Aug. 15, 1945] C
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- 10236 The preparation of Cyclonite; progress report by Werner E. Bachmann, Frank C. Whitmore and Walter R. Kirner. Jan. 17, 1941. B-2. OSRD 65. C
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- 10238 [Preparation of Cyclonite] progress report by W. E. Bachmann. Mar. 15, 1942. C
- 10239 The preparation of Cyclonite using hexamine, by W. E. Bachmann. Jan. 30, 1942. C
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- 10241 Studies on RDX (B) and related compounds; final report by Werner E. Bachmann, Edward L. Jenner, Lawrence B. Scott and Norman C. Deno. June 9, 1945. OSRD 5186. C
- 10242 Abstract of work done at the University of Michigan, by W. E. Bachmann. Jan. 15, 1942. C
- 10243 Experiments on RDX, PHX and HMX, by W. E. Bachmann and E. L. Jenner. Jan. 15, 1943. Report no. 104. C
- 10244 The hydrolysis method for samples rich in HMX, by Werner E. Bachmann, E. L. Jenner and L. B. Scott. [Aug. 14, 1943] C
- 10245 The impact sensitivity of HMX and of RDX-HMX mixtures, by Werner E. Bachmann, Alfred T. Blomquist, Leo G. Davy, Duncan P. MacDougall and Frank C. Whitmore. Sept. 5, 1944. OSRD 4099. C

- 10246 Investigation of the catalytic conversion of benzene to DNP, by W. E. Bachmann. [Jan. 15-Nov. 15, 1943] The oxynitration of benzene. [Feb. 15 and Mar. 15, 1943] C
- 10247 The oxynitration of benzene: the preparation of 2,4-dinitrophenol and picric acid, by W. E. Bachmann, J. M. Chemerda, N. C. Deno and E. L. Jenner. Jan. 15, Feb. 15 and Mar. 15, 1943. Interim report nos. 103, 105, 107. C
- 10248 The oxynitration of benzene to dinitrophenol, by W. E. Bachmann, J. M. Chemerda, N. C. Deno and E. C. Horning. July 15-Nov. 15, 1943. Interim report nos. 115, 117, 119, 121, 123. C
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- 10252 Preparation of cyclonite; progress reports by W. E. Bachmann Dec. 19, 1941, Mar. 21 and Apr. 18, 1942. C
- 10254 The preparation of ethylenediurethane by a continuous process, progress report by W. E. Bachmann. Sept. 15, 1942. C
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- 10259 The recovery of acetic acid in the combination method for the preparation of cyclonite; progress report by W. E. Bachmann. Dec. 1, 1941. C
- 10260 The sensitivity of RDX; progress report by W. E. Bachmann. May 12, 1942. C
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| 10268 | Development of plastic mixtures for use as UP propellants, by Charles Allen Thomas and Carroll A. Hochwalt. Progress reports, Jan. 12-Oct. 8, 1942. Summary progress report, Aug. 8, 1942. B-312. OSRD 778. C | 10273 Characteristics of low thrust, long burning jet propulsion units utilizing molded composite propellant; progress report by R. A. Ruehrwein. Nov. 20, 1945. OSRD 5705. C |
| 10269 | [Plastic binders for molded composite propellants] monthly progress reports by Charles Allen Thomas and Carroll A. Hochwalt. Feb. 25-Nov. 15, 1942. C | 10274 Characteristics of the ACL-1 jet propulsion unit; progress report by F. A. Long. June 27, 1945. OSRD 5268. C |
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10276 Composite rocket propellant 218-B. [194-] C	10284 Development and testing of molded composite rocket propellants, by C. A. Thomas and C. R. McCullough. [May 15 and June 15, 1944] Pilot plant operations. [July 15-Oct. 15, 1944] C
10278 Construction at the Monsanto Pilot Plant for molded composite propellants; progress report by R. E. Lenz and W. R. Schwandt. Nov. 15, 1945. OSRD 5707. C	10285 Development of twelve inch diameter grains of molded composite propellants; progress report by F. A. Long. Nov. 8, 1945. OSRD 5698. C
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10305 Eutectic diagrams; final re-
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10306 A report of experiments on
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Composition A-loaded 5"/38
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10308 Calculations on shock waves
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10309 Controlled decomposition of
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10310 Low pressure burning of ni-
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10311 [The numerical integration
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- 10324 Addition of oxides of nitro-
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S. Towne and Kenneth N.
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- 10326 Organic development prob-
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- 10327 The preparation of anhydro-
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- 10331 Physical constants of WS
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- 10332 PETN - EDNA project, final
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- 10334 The thermal decomposition
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Dickey, D. O. Hoffman and S.
M. Olin. Apr. 28, 1945.
OSRD 4999. C

- 10335 Controlled decomposition of
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- 10336 DINA (bis-nitroxyethylnitra-
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- 10337 The thermal decomposition of
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| 10360 | Studies on the heat phenomena observed in the preparation of RDX by the Bachmann process, by Frank C. Whitmore, J. G. Aston, C. I. Noll, W. H. James and G. C. Bassler. Dec. 8, 1942. B-458. OSRD 1134. C | UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pa. OEMsr-646
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| 10361 | A study of recovery of acetic acid and ammonium nitrate from the Bachmann process; progress report by Frank C. Whitmore. Feb. 17, 1942. B-182. OSRD 393. C | 10365 | DINA and related compounds; final report by Marvin Carmack. June 19, 1945. OSRD-5157. C |
| 10362 | Study of the recovery from the Bachmann process; progress report. Jan. 15, 1942. C | 10366 | Studies on the mechanism of formation of cyclonite (RDX); final report by Marvin Carmack, Isaiah Von, J. J. Leavitt and Frederick A. Kuehl, jr. Mar. 1, 1946. OSRD 6328. C |
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| 10368 [DINA and related compounds] progress reports by Marvin Carmack, Manuel Baizer, Richard Handrick, Leonard Kissinger and Edward Specht. Oct. 15, Nov. 15 and Dec. 15, 1942. C | 10375 Preparation of DINA; progress reports by Marvin Carmack. June 15-Dec. 15, 1944. Report nos. PRD-(1-6). C |
| 10369 Investigation of the catalytic conversion of benzene to DNP, by M. Carmack. [Dec. 15, 1942-Apr. 15, 1944] C | 10376 The preparation of Fivol, by Marvin Carmack and V. C. Neklutin. Sept. 23, 1943. SPR-5. C |
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| 10371 Mechanism of the reaction of hexamine and related compounds with nitric acid, acetic anhydride and ammonium nitrate, by Ralph Connor. Feb. 1, 1943. C | 10378 The preparation of RDX by the direct nitrolysis of hexamine, by Marvin Carmack. Aug. 7, 1945. OSRD 5398. C |
| 10372 The oxynitration of benzene; progress reports by Marvin Carmack, Manuel M. Baizer, Richard Handrick, Leonard W. Kissinger, Edward Specht and E. C. Wagner. Jan. 15, 1943-May 15, 1944. Report nos. PR-(7a-21a). C | 10379 [Synthesis of new explosives and explosives intermediates] progress report by Marvin Carmack and Richard Handrick. Sept. 15, 1943. C |
| 10374 The preparation and properties of DINA, by Marvin Carmack. [June 15, 1944-Feb. 15, 1945] C | 10380 Ultraviolet absorption spectra of nitramines and their salts, by M. Carmack. [Mar. 15, 1943] C |
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10384 Hazards to the health of in-
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June 15, 1944. Systemic
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15, 1944. C

10385 Hazards to the health of in-
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4174. C

10386 Studies of the toxicity of
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10387 Studies of the toxicity of
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10388 Process design of a Ficonite
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Dec. 1943. OSRD 3054.
Report 457-43. C

UNIVERSITY OF PITTSBURGH, Pitts-
burgh, Pa. OEMsr-754
Projects NO-B10, NO-B38, NO-
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OD-04, OD-103.

10389 Heat of combustion of explo-
sive substances; final re-
port by Gebhard Stegeman.
July 4, 1945. OSRD 5306. C

10390 Determination of heats of
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Stegeman. [Mar. 15, June
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